

NOT - a telescope for the future



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The NOT in the era of the MAAT-IFU on the GTC

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A new mirror-slicer optical instrument, named MAAT, will allow the OSIRIS spectrograph on the Gran Telescopio de CANARIAS (GTC) the capability to perform Integral-Field Spectroscopy over a seeing-limited FoV $12.0'' \times 8.5''$ with a slice width of $0.303''$. MAAT will enhance the resolution power of OSIRIS by 1.6 times as compared to its $0.6''$ long-slit. All the eleven OSIRIS grisms and volume-phase holographic gratings will be available to provide broad spectral coverage with resolution $R=600$ up to 4100 in the 360-1000 nm wavelength range. MAAT top-level requirements will broaden its use to the needs of the GTC astronomical community for a wide range of competitive science topics that covers the entire astronomy given its unique observing capabilities. The GTC equipped with OSIRIS+MAAT will also play a fundamental role in synergy with worldwide facilities, in particular the NOT operating on the ORM at La Palma. I will highlight the focus on a selected set of outstanding science topics enabled by the Nordic-Spanish team supporting this project in different areas of expertise, and I will present an overview of the instrument design, performance and status.

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